

SHENZHEN LANDO TECHNICAL INDUSTRIAL CO.,LTD

Compression-type Water Chiller Use Manual



Dear Customer:

Thanks for using our product compression chiller. Please read the manual before using the product. If you have some questions, Please contact the dealer or us.

The compression chiller is for fish tank/aquarium, hydroponic tank, cool equipment, laser cooler, liquid cooling system etc.

Product Specification

1. Energy conservation, adopt the most efficient compressor cooling system.
2. Unique design of casing heat exchanger efficiency heat transfer, high cooling efficiency.
3. Pure titanium cooling water circulation system, corrosion resistance, fresh water, sea water can be used.
4. Intelligent temperature control system, with a variety of control and protection functions, convenient operation, accurate temperature.
5. Bass design, machine is running, from 1.5 meter outside almost no noise.

Technology Parameter

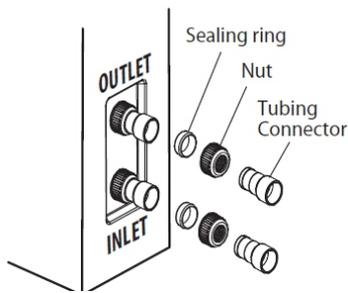
MODEL	LD-0.5HP	LD-1.0HP	LD-1.5HP
HEATING CAPACITY	1800W	2800W	3800W
COOLING CAPACITY	1600W	2600W	3600W
POWER	0.5HP(550W)	1.0HP(850W)	1.5HP(1250W)
VOLT-1#	220-240V/50Hz	220-240V/50Hz	220-240V/50Hz
CURRENT	2.2A-2.5A	4.2A-4.7A	5.2A-5.5A
VOLT-2#	110-120V/60Hz	110-120V/60Hz	110-120V/60Hz
CURRENT	4.4A-5.5A	8.2A-9.5A	10.0A-11.2A
REFRIGERANT	R22/R410A	R22/R410A	R22/R410A
RECOMMENDED TANK SIZE	500L-700L	800L-1100L	1200L-1600L
WEIGHT	32kg	36kg	45kg
OUTLET/INLET SIZE	Φ25	Φ32	Φ32
WATER FLOW	>2500L/H	>3500L/H	>4000L/H
UNIT SIZE	49X38X39CM	54X38X41CM	52X54X47CM



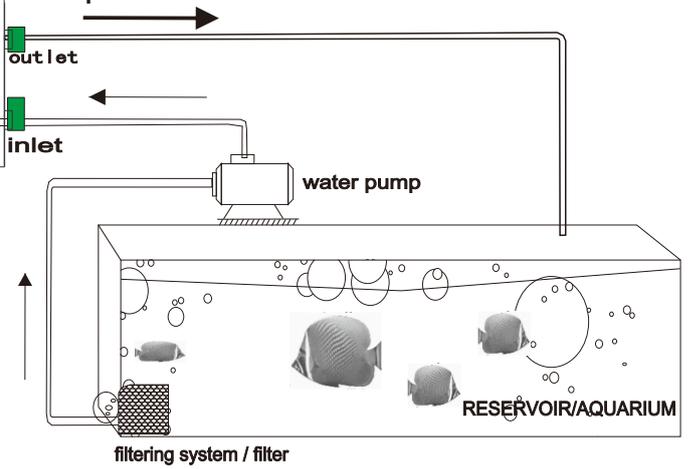
Note: The Test Condition---Ambient Temperature/ Water Inlet Temperature----Winter 20 °C/15 °C, Summer 35 °C/32 °C
 Environmentally Friendly Refrigerant : R134A R407C R410A ;The Power Supply is 110-120V/60Hz,220-240V/50Hz.

Installation Operation

1. The installation of the chiller must comply with the safety precautions and warnings .The unit must be used with a circulating system and a filtering system . As outlined bellow
 Aquarium or reservoir – filtering systems or filter – water pump – inlet or chiller / warmer – outlet of chiller / warmer – aquarium / reservoir .
2. The ground or frame of the chiller must be firm and flat, free from uneven or sloping surfaces.
3. Power ground and leakage switch, the power plug must be clean without water, can not be fixed in wet places.

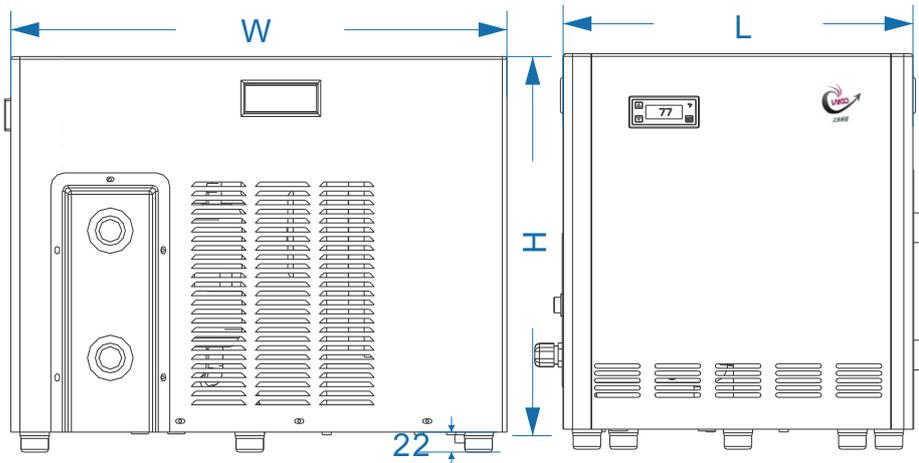


**Chiller Separate Configuration Pumps,
Pump Head Must Be Controlled Within 8 M.**



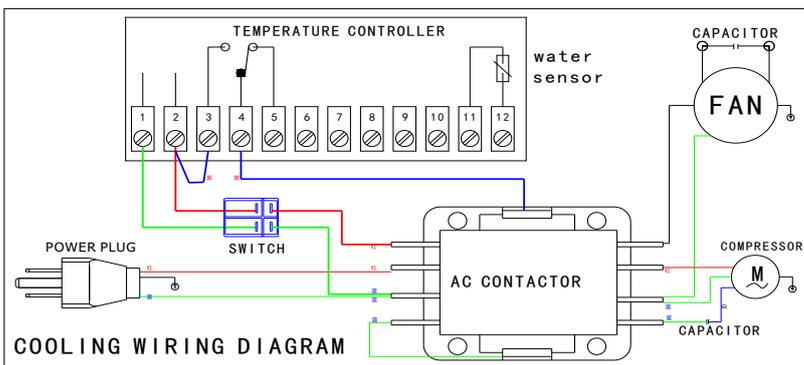
Installation of the chiller must comply with all safety precautions and warnings. Unit must be used with a filtering system and circulating pump as shown:

Dimensions diagram:

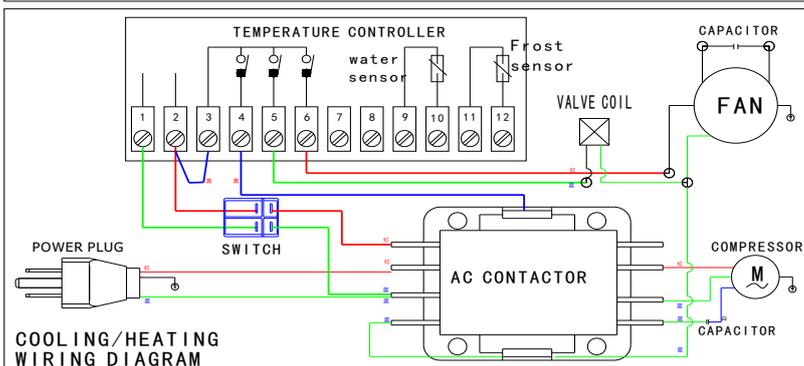


MODEL	LD-0.5HP/0.75HP	LD-1.0HP	LD-1.5HP
LENGTH	382	382	518
WIDTH	492	542	542
HEIGHT	370	413	470

Circuit Diagram



cooling control panel



cool/warm control panel



Operational Control

Intelligent temperature controller with more perfect control system, control the time delay of compressor, fan and on/off, defrosting temperature into the Settings, defrosting quit. the temperature of the cooling and heating operation process by time and temperature of double protection self-checking overheat detection, sensor self-inspection (E1 said sensor fault line), the operation is simple, powerful.

After the machine power on, open the switch, panel auto-matically detect probe the relationship between temperature and set temperature, determine the machine cooling or heating mode (the machine is only cooling, and standby mode).

When the water temperature is greater than the set temperature more than 2 °C/°F, the machine start delay cooling mode operation after three minutes. When the water temperature is less than the set temperature below 2 °C/°F, the machine start delay heating mode operation after three minutes. When the water temperature and set temperature within 2 °C/°F, standby the machine.

Temperature once set, the parameters are stored, if not reset, the machine has been operating and stop to set temperature.

The chiller has power failure memory function. Call again after the blackout, still in accordance with the mode of the original machine.

The chiller has the compressor delay start protection function. Stop after restarting, if the downtime is less than 3 minutes, automatic control system delay to meet 3 minutes after the restart.

See illustration on the control panel 1~2.

Press and hold the SET into the function of temperature setting, adjusted by “▲”key or “▼”key until conform to the requirements of the owner.

CODE	MENU	SETTING RANGE	DEFAULT SET
F0	TEMPERATURE DIFFERENCE	(1/2) °C、(2/3/4) °F	2
F1	TEMPERATURE CORRECTION	(-4~+4) °C/°F	0
	TEMPERATURE RANGE	(4-40) °C、(36-104) °F	25°C、77°F
FA	TEMPERATURE SAID	0=°C、1=°F	0

Stop the operation (don't press any keys) for 10 seconds, automatically converted to digital tube display temperature, set up effective.

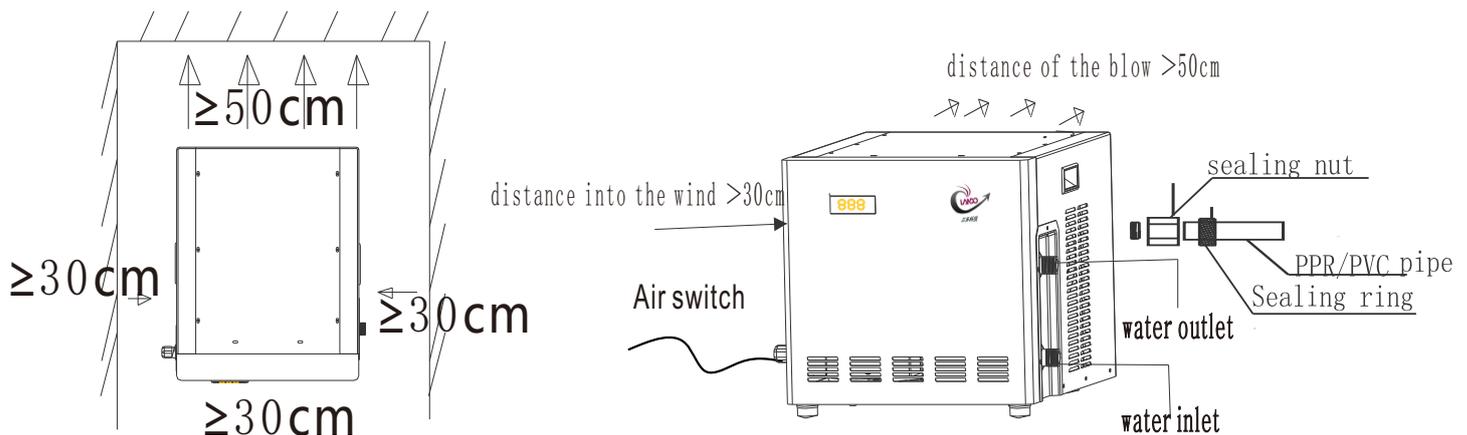
Common Faults Scheduling

1. Machine normal use for a long time, If it is found that the capacity significantly less or without refrigeration, should consider whether or not the refrigerant quantity is not enough, Please sent to professional maintenance and repair, and infuse the right amount of the same refrigerant(R22 or R410a).

2. Use for a long time, if the air temperature or water temperature is too high, poor ventilation dust accumulation make machines could cause compressor protective stop working, At this time should be cut off power supply, clean machine and strengthen the ventilation and heat dissipation, which can be restored to normal work.

Maintenance

1. In order to ensure safety, please place the machine in aquatic animals or other liquid does not splash into place, in order to avoid leakage of dangerous.
2. Please place the machine where the children not easy contact, lest the children play and accidental damage.
3. The operation of the machine need ventilation cooling. Machines placed must keep enough space, therefore, generally The direction of the wind at no less than 30 cm and The direction of the exhaust air of not less than 50 cm.



4. In order to prevent the machine from the water circulation pipeline jam, please on the inlet side of the machine assembly filtering device or series filter barrels outside the cylinder.
5. Please use hard hose or tube wall thickness, not easy to winding soft hose as machines in and out of the water pipe, In order to prevent the water pipe is blocked and the refrigerating capacity of the machine impact or not refrigeration.
6. Please check whether the power supply voltage before starting the conform to the requirements of the machine parameters, Open the water cycle system, and make sure the normal operation of water flow.
7. Please regular cleaning machine(Generally should not be more than a month),Ensure machine ventilation cooling, prevent the dust adhesion caused by leakage phenomenon.
8. If you don't use machine for a long time, please empty your machine internal moisture, and clean, Placed in ventilated dry place, make sure the next can normal use.

Contacts

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